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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/611,456	07/01/2003	Johann Schuster	P03,0258	1611	
<sup>26574</sup> SCHIFF HARI	7590 09/10/2007 DIN, LLP		EXAMINER		
PATENT DEPARTMENT			ROY, BAISAKHI		
6600 SEARS TOWER CHICAGO, IL 60606-6473			ART UNIT	PAPER NUMBER	
			3737		
			MAIL DATE	DELIVERY MODE	
			09/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	H.		
	Application No.	Applicant(s)	· · ·
,	10/611,456	SCHUSTER ET AL.	
Office Action Summary	Examiner	Art Unit	
	Baisakhi Roy	3737	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 13 Ju	ne 2007.		
,	action is non-final.		
3) Since this application is in condition for allowar	•		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-7</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.	•	
Application Papers	:		
9) The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d)	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			•
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.		
<ol><li>Certified copies of the priority documents</li></ol>	s have been received in Application	on No	
3. Copies of the certified copies of the prior	•	ed in this National Stage	
application from the International Bureau			
* See the attached detailed Office action for a list	of the certified copies not receive	d.	
		•	•
	,		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary Paper No(s)/Mail Da		
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P		
Paper No(s)/Mail Date	6) 🔲 Other:		

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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments filed 6/13/07 have been fully considered but they are not persuasive. With respect to the coupling and releasing mechanism between the gradient coil unit and the patient bed mechanism, Yamamoto et al. clearly teach attaching and releasing the gradient coils 221, 223. Yamamoto et al. teach a movable, small, main gradient coil 221, which is completely separated from a first gradient coil 223. Gradient coils 221 and 223 can be separately disposed. The gradient coil may be integrated with the bed but Yamamoto et al. clearly teach that the gradient coil can be moved to a desired location, while coupled to the bed and can also be released, when not in use. The bed 213 is constructed to be movable on a supporter 214. Yamamoto et al. clearly teach a local gradient coil unit which is movable and is released from the main gradient coil unit, when not in use (col. 15 lines 45-51). Therefore the bobbin supporting the coil unit clearly separates itself from the bed.

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 4-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamamoto et al. (5600245). Yamamoto et al. disclose a magnetic resonance apparatus

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comprising a MR scanner have an interior examination space (col. 9 lines 18-44) with a patient bed mechanism 213, adapted to receive an examination subject 212, which is movable into and out of the examination space 214. Yamamoto et al. also teach a gradient coil unit which is movable into and out of the examination space (# 221, #223, col. 9 lines 52-57). The reference further includes a coupling unit that couples the gradient coil unit to the patient bed mechanism to move the gradient coil unit relative to the examination space with the patient bed mechanism (figs. 19A and 19B, col. 15 lines 36-43). The coupling device is configured to automatically join the gradient coil unit to the patient bed mechanism when the patient bed mechanism moves toward and contacts the gradient coil unit in a movement direction (col. 15 lines 43-45) and release the gradient coil unit from the patient bed mechanism when the patient bed mechanism again moves in the movement direction (col. 15 lines 46-51), as suggested in the reference by the proper positioning of the gradient coil unit into and out of the examination region. The movement of the gradient coil with the coupling unit is facilitated automatically and comprising electrical connections for supplying power to the coil unit (col. 16 lines 4-25). The rollers 92, fitted to the bobbin 16, and equipped with the stopper 91, are disposed in the examination space and extending into the patient bed mechanism, interact with the gradient coil unit and patient bed in the examination space and guides the gradient coil unit through the examination space (col. 15 lines 30-51).

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## Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al. in view of Mastandrea, Jr. et al. (previously cited). Yamamoto et al. do not explicitly address a cart pivotally attached to the examination space to receive the gradient coil unit. In the same field of endeavor Mastandrea, Jr. et al. disclose a magnetic resonance apparatus comprising a MR scanner with an interior examination region, a patient bed or couch adapted to receive a subject and which is movable into and out of the examination space (col. 4 lines 1-10), a gradient coil unit movable into and out of the examination space and a coupling unit for coupling the gradient coil to the patient bed for moving the coil relative to the examination region (col. 4 lines 11-18). Mastandrea, Jr. et al. teach a cart or trolley for receiving the gradient coil unit outside of the examination space and comprising a connection pivot ably attaching the cart to the scanner adjacent to the examination space (col. 3 lines 59-63, col. 4 lines 15-37, col. 6 lines 55-62, col. 7 lines 55-65). It would have therefore been obvious to one of ordinary skill in the art to use the teaching by Mastandrea, Jr. et al. to modify the teaching by Yamamoto et al. for the purpose of providing proper storage of the coil unit when not in use (col. 4 lines 15-18).

### Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baisakhi Roy whose telephone number is 571-272-7139. The examiner can normally be reached on M-F (7:30 a.m. - 4p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian L. Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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